

## HI-HAT 1-1/2" FURRING CHANNEL 25 GAUGE

**MEMBER DESIGNATION:** 150FC125-18 IN.

**WEB WIDTH:** 1.25 IN.

**FLANGE WIDTH:** 1.5 IN.

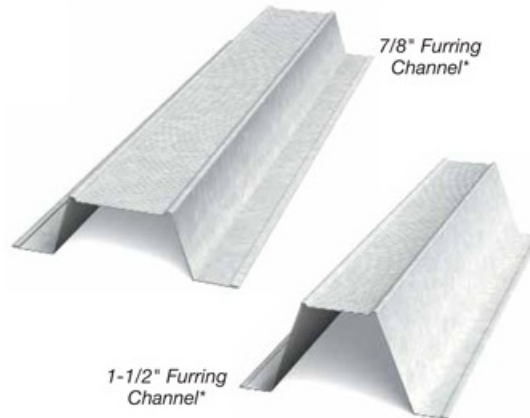
**WEIGHT PER FOOT:** 0.32 LB/FT

**DESIGN THICKNESS:** 0.0188 IN.

**YIELD STRENGTH:** 33 KSI

**TENSILE STRENGTH:** 45 KSI

**GALVANIZED COATING:** G-60



**GROSS PROPERTIES**

AREA: 0.094 IN<sup>2</sup>

I<sub>x</sub>: 0.031 IN<sup>4</sup>

R<sub>x</sub>: 0.575 IN

I<sub>y</sub>: 0.0467 IN

R<sub>y</sub>: 0.705 IN

**EFFECTIVE PROPERTIES**

I<sub>x</sub>: 0.0299 IN<sup>4</sup>

S<sub>x</sub>: 0.0344 IN<sup>3</sup>

Ma: 56.59 IN-K

**SECTION PROPERTY NOTES:**

1. PROPERTIES BASED ON THE AISI S100-07
2. HEMS AND OFFSET IN FLANGE OF NON-STRUCTURAL CHANNEL SECTIONS ARE IGNORED
3. FOR DEFLECTION CALCULATIONS, USE EFFECTIVE I<sub>x</sub>. EFFECTIVE I<sub>x</sub> IS BASED ON PROCEDURE 1 OF THE AISI S100-07
4. EFFECTIVE PROPERTIES ARE GIVEN AS THE MINIMUM VALUE FOR POSITIVE OR NEGATIVE BENDING

(HAT) FURRING (F) CHANNEL ALLOWABLE CEILING SPANS L/240									
SPANS	4 PSF CHANNEL SPACING (IN) O.C.			6 PSF CHANNEL SPACING (IN) O.C.			13 PSF CHANNEL SPACING (IN) O.C.		
	12	16	24	12	16	24	12	16	24
SINGLE	7' 11"	7' 2"	6' 3"	6' 11"	6' 3"	5' 6"	5' 4"	4' 10"	4' 2"
MULTIPLE	9' 9"	8' 10"	7' 6"	8' 6"	7' 6"	6' 0"	5' 8"	4' 9"	3' 8"

\* LOADS THAT EXCEED THE 10 PSF LIMIT FOR NON-STRUCTURAL MEMBERS REQUIRE THE USE OF STRUCTURAL MATERIAL WITH G-60 OR SIMILAR COATING.

(HAT) FURRING (F) CHANNEL ALLOWABLE CEILING SPANS L/360									
SPANS	4 PSF CHANNEL SPACING (IN) O.C.			6 PSF CHANNEL SPACING (IN) O.C.			13 PSF CHANNEL SPACING (IN) O.C.		
	12	16	24	12	16	24	12	16	24
SINGLE	6' 11"	6' 3"	5' 6"	4' 9"	5' 6"	4' 9"	3' 8"	4' 3"	3' 8"
MULTIPLE	8' 6"	7' 9"	6' 9"	5' 11"	6' 9"	5' 11"	3' 8"	4' 9"	3' 8"

\* LOADS THAT EXCEED THE 10 PSF LIMIT FOR NON-STRUCTURAL MEMBERS REQUIRE THE USE OF STRUCTURAL MATERIAL WITH G-60 OR SIMILAR COATING.

**TABLE NOTES:**

1. SINGLE SPANS TAKEN AS THE MINIMUM SPAN BASED ON MOMENT, SHEAR, WEB CRIPPLING OR DEFLECTION
2. MULTIPLE SPANS INDICATE TWO OR MORE EQUAL, CONTINUOUS SPANS WITH SPAN LENGTH MEASURED SUPPORT TO SUPPORT
3. MULTIPLE SPANS TAKEN AS THE MINIMUM SPAN BASED ON MOMENT, SHEAR, WEB CRIPPLING, DEFLECTION, COMBINED BENDING AND SHEAR OR COMBINED BENDING AND WEB CRIPPLING
4. WEB CRIPPLING VALUES BASED ON 1? BEARING AT END AND INTERIOR SUPPORTS